

In the Abstract:

Please replace the Abstract with the following amended Abstract:

A processor has respective first and second external instruction formats (F_1, F_2) in which instructions (add, load) are received by the processor. Each instruction has an opcode (e.g. 1011) which specifies an operation to be executed. Each external format has one or more preselected opcode bits ($F_1: i+1 \sim i+4; F_2: i+1 \sim i+3$) in which the opcode appears. The processor also has an internal instruction format (G_1) into which instructions in the external formats are translated prior to execution of the operation. _____

_____ A first operation (add) is specifiable in both the first and second external formats F_1, F_2 , and a second operation (load) is specifiable in the second external format (F_2). The first and second operations have distinct opcodes (101, 011) in the second external format. In each of the preselected opcode bits which the first and second external formats have in common ($i+1 \sim i+3$), the opcodes of the first operation (101) in the two external formats are identical.

~~Such "congruent" instruction encodings can enable a translation process, for translating the external format opcode into a corresponding internal format opcode, to be carried out simply and quickly without the need to positively identify each individual external format opcode.~~

_____ [Fig. 3(B)]